



### CONTACT

Market information  
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- Instrumentation cables 300/500 V
- XLPE insulation (Part 1)
- Unarmoured (Type 1)
- Overall Screen (OS)
- **Oil resistant**

### STANDARDS

Test IEC 60332-3-22 Cat.A

### APPLICATIONS

These instrumentation and communication cable are used to **transmit analogue or digital signals in measurement and process control where chemicals may be present.**

### Design

#### Conductor:

Solid, stranded or flexible bare copper

#### Insulation:

Cross-linked polyethylene (XLPE)

#### Overall screen:

Binder tape

Tinned copper drain wire,

Aluminium/polyester tape

#### Outer sheath:

Polyvinyl chloride (PVC)

Colour: black

Other colour on request.

### Core identification

Pair: black - white

Quad: black - white - red - blue (2 pair cables assembled as a quad)

White core printed with pair number

On request: according to PAS 5308 part 1

### Marking

NEXANS 279 XLPE/OA.SCR/PVC 300/500V Nber of pairs & cross-section Cu IEC 60332-3-22(A) MM YYYY Manufacturing number + metric marking

### Standards

PAS 5308 Part 1/type 1 (Design guide-lines)

BS EN 60228-2005

BS EN 50290-2-29



Rated Voltage U<sub>0</sub>/U (Um)  
**300/500 V**



Fire retardant  
**EN IEC 60332-3-22 (cat A)**



Oil resistance  
**Yes**



Electro magnetic interference  
 resistance  
**Yes**



Operating temp.  
**-20 ... 60 °C**



Max. conductor temp.in  
 service  
**90 °C**

## CHARACTERISTICS

### Construction characteristics

Conductor material	Bare copper
Insulation	XLPE (Cross-linked Polyethylene)
Overall screen	Tinned copper drain wire + aluminium/polyester tape
Outer sheath	PVC
Protection	no

### Electrical characteristics

Rated Voltage U <sub>0</sub> /U (Um)	300/500 V
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### Usage characteristics

Fire retardant	EN IEC 60332-3-22 (cat A)
Oil resistance	Yes
Electro magnetic interference resistance	Yes
Operating temperature, range	-20 ... 60 °C
Max. conductor temperature in service	90 °C
Standard	PAS

## CLASS 1 0.5 MM<sup>2</sup>

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
1	0.8	1.8	5.7	6.6	54
2	0.8	1.8	6.5	7.5	72
5	0.8	1.8	12.3	13.7	170
10	0.8	1.8	15.9	17.5	313
20	0.8	1.8	20.3	22.4	529
30	0.8	1.8	24.2	26.6	760

## CLASS 5 0.5 MM<sup>2</sup>

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
1	0.9	2.1	6.3	7.3	60
2	0.9	2.1	7.2	8.2	78
5	0.9	2.1	13.8	15.3	182
10	0.9	2.1	17.8	19.7	374
20	0.9	2.1	23.1	25.5	637
30	0.9	2.1	27.5	30.3	919



Rated Voltage U<sub>0</sub>/U (Um)  
300/500 V



Fire retardant  
EN IEC 60332-3-22 (cat A)



Oil resistance  
Yes



Electro magnetic interference  
resistance  
Yes



Operating temp.  
-20 ... 60 °C



Max. conductor temp. in  
service  
90 °C

## CLASS 2 0.75 MM<sup>2</sup>

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
1	1.1	2.3	6.7	7.7	70
2	1.1	2.3	7.6	8.7	94
5	1.1	2.3	14.8	16.4	226
10	1.1	2.3	19.2	21.2	469
20	1.1	2.3	25.0	27.6	821
30	1.1	2.3	29.7	32.7	1181

## CLASS 1 1 MM<sup>2</sup>

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
1	1.14	2.34	6.8	7.8	75
2	1.14	2.34	7.7	8.8	103
5	1.14	2.34	15.0	16.6	248
10	1.14	2.34	19.5	21.5	513
20	1.14	2.34	25.3	27.9	906
30	1.14	2.34	30.3	33.4	1320

## CLASS 2 1.5 MM<sup>2</sup>

nb pairs	Conductor diam. [mm]	Diam. over insulation [mm]	Min. outer diam. [mm]	Max. outer diam. [mm]	Approx. weight [kg/km]
1	1.5	2.7	7.5	8.5	95
2	1.5	2.7	8.6	9.7	135
5	1.5	2.7	16.8	18.5	326
10	1.5	2.7	21.9	24.2	682

## SELLING AND DELIVERY INFORMATION

Other fire performances IEC 60332-1 or IEC 60332-3-24(C) and enhanced hydrocarbon resistance on request.

Minimum bending radius:

10 x outer diameter  
To be doubled during laying operations

Tinned copper conductors available on request



Rated Voltage U<sub>0</sub>/U (Um)  
300/500 V



Fire retardant  
EN IEC 60332-3-22 (cat A)



Oil resistance  
Yes



Electro magnetic interference  
resistance  
Yes



Operating temp.  
-20 ... 60 °C



Max. conductor temp. in  
service  
90 °C